



# UNITED STATES PATENT AND TRADEMARK OFFICE

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/092,558	03/08/2002	Olof Arvidsson	0104-0386P	7898
2292	7590 11/10/2005		EXAMINER	
BIRCH STEWART KOLASCH & BIRCH			PENDLETON, BRIAN T	
PO BOX 747 FALLS CHURCH, VA 22040-0747			ART UNIT	PAPER NUMBER
	•		2644	

DATE MAILED: 11/10/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	10/092,558	ARVIDSSON, OLOF				
Office Action Summary	Examiner	Art Unit				
	Brian T. Pendleton	2644				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).  Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1) Responsive to communication(s) filed on 08 M	arch 2002					
	action is non-final.					
· <u> </u>		secution as to the morits is				
	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims						
4)⊠ Claim(s) <u>1-30</u> is/are pending in the application.	☑ Claim(s) <u>1-30</u> is/are pending in the application.					
4a) Of the above claim(s) is/are withdraw	4a) Of the above claim(s) is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1,2,5-19,23-25 and 27-30</u> is/are rejected.						
_	Claim(s) <u>3,4,20-22 and 26</u> is/are objected to.					
8) Claim(s) are subject to restriction and/or election requirement.						
Application Papers						
9)☐ The specification is objected to by the Examiner.						
10)⊠ The drawing(s) filed on <u>08 March 2002</u> is/are: a)⊠ accepted or b)⊡ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a) ☐ All b) ☐ Some * c) ☐ None of:						
1.☐ Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau		d III tills National Otage				
* See the attached detailed Office action for a list		d.				
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Attachment(s)	🗖					
Notice of References Cited (PTO-892)  4) Interview Summary (PTO-413) Paper No(s)/Mail Date						
Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) 5) Description Notice of Informal Patent Application (PTO-152)						
Paper No(s)/Mail Date  S. Patent and Trademark Office	6)					

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#### **DETAILED ACTION**

#### Claim Objections

Claim 20 is objected to because of the following informalities: there lacks antecedent basis for the term "the mixing console". Appropriate correction is required.

### Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claim 25 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Regarding claim 25, the phrase "such as" renders the claim indefinite because it is unclear whether the limitations following the phrase are part of the claimed invention. See MPEP § 2173.05(d).

## Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1, 2, 8-18, 23, 24, and 27-30 are rejected under 35 U.S.C. 103(a) as being unpatentable over Sparkes, US Patent 4,993,073 in view of McKinley, Jr., US Patent 4,479,240. Sparkes discloses a system for receiving audio signals from a plurality of microphones

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comprising satellite units 29-33 having a microphone signal input 34-38, composite signal channel input 39-43, and summing means 55 (for satellite unit 30). Sparkes does not disclose a master unit having a composite signal channel input and signal converting means for converting the composite signal into a master signal output. McKinley discloses a audio mixing console comprising a master unit 18 used for adding special effects to a composite site (converting a composite signal into a master signal output) for the receiving unit 20. It would have been obvious to one of ordinary skill in the art at the time of invention to modify Sparkes to include the master unit of McKinley for the purpose of adding special effects to the mixed signal. thereby increasing the enjoyment of the sound mixing listening environment. Claims 1, 2, 24, 27, 29, and 30 are met. Regarding claim 8, there is disclosed in column 7 lines 58-60 that the digital signal processor in the satellite unit accomplishes volume control. Per claims 9 and 10, volume control inherently involves attenuation and gain control. As to claim 11, adder 55 adds two signals, therefore inherently superimposing one signal onto another. Per claims 12 and 14, adder 55 is a digital summer. As to claim 13, Examiner takes Official Notice that it was obvious at the time of invention to utilize digital or analog signal processing techniques. Per claim 15, there is obviously an amplifier circuit in the master unit 18 of McKinley. Regarding claim 16, there was an obvious need for power in the master unit, therefore one of ordinary skill in the art would have been motivated to provide a transformer or its equivalent in order to provide power. Per claim 17, balancing was a well known technique in the art of sound mixing in order to convey a specific audio listening environment. As claim 18, all audio signals are able to be

reproduced by standard mixing consoles. Per claim 23, the satellite units and master unit are in

separate housings in the combination (see column 5 lines 35-40 of Sparkes). Examiner takes

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Official Notice that it was obvious to connect them with cables. Regarding claim 28, column 8 lines 48-50 disclose that the satellite units supply power to each other.

Claims 5-7, 19, and 25 are rejected under 35 U.S.C. 103(a) as being unpatentable over Sparkes in view of McKinley, Jr. as applied to claims 1 above, and further in view of Eastty. The combination of Sparkes and McKinley, Jr. does not disclose at least two common composite signal channels. Nevertheless, it was evident at the time of invention that stereo mixing was performed. Eastty discloses a mixing apparatus comprising a stereo pair of microphones 1 for receiving an instrument acoustic signal. Therefore, it would have been obvious to one of ordinary skill in the art at the time of invention to use a stereo pair of microphones in the combination of Sparkes and McKinley, Jr. to enhance the listening experience. A stereo pair of microphones would naturally entail two composite signal channels, two microphone inputs and panning control, which is already taught by Sparkes. As to claims 19 and 25, one of ordinary skill in the art would have been motivated to provide the summed signals of Sparkes to a mixing console, as taught in Eastty, for the purpose of further manipulation of instrument sounds.

#### Allowable Subject Matter

Claims 3, 4, 20-22, and 26 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

#### Conclusion

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Brian T. Pendleton whose telephone number is (571) 272-7527. The examiner can normally be reached on M-F 7-4:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Vivian Chin can be reached on (571) 272-7848. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Brian T. Pendleton Primary Examiner Art Unit 2644

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btp